





APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 09/474,478 **B. JACK LONGLEY** 58434-A/JPW/ 2296 12/29/1999 7590 07/16/2002 JOHN P WHITE **EXAMINER** COOPER & DUNHAM LLP GITOMER, RALPH J 1185 AVENUE OF THE AMERICAS NEW YORK, NY 10036 ART UNIT PAPER NUMBER 1627 DATE MAILED: 07/16/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

Application No. 09/474,478

Applicant(s)

Examiner

Office Action Summary

Ralph Gitomer

Art Unit 1627

Longley



		
	communication appears on the co	over sheet with the correspondence address
Period for Reply		
A SHORTENED STATUTORY PERIOR THE MAILING DATE OF THIS COM		IRE 3 MONTH(S) FROM
 Extensions of time may be available under the pro mailing date of this communication. 	visions of 37 CFR 1.136 (a). In no event, ho	owever, may a reply be timely filed after SIX (6) MONTHS from the
- If the period for reply specified above is less than	mum statutory period will apply and will expir for reply will, by statute, cause the application months after the mailing date of this communi	
Status	, , , , ,	
1) 💢 Responsive to communicatio	n(s) filed on <i>May 20, 2002</i>	·
2a) X This action is FINAL.	2b)☐ This action is no	on-final.
		or formal matters, prosecution as to the merits is vie, 1935 C.D. 11; 453 O.G. 213.
Disposition of Claims		·
4) 💢 Claim(s) <u>1-9, 12-19, 23-26,</u>	28-31, 33, 34, and 39-49	is/are pending in the application.
4a) Of the above, claim(s)		is/are withdrawn from consideration.
5) Claim(s)		is/are allowed.
6) 💢 Claim(s) <u>1-9, 12-19, 23-26, </u>	28-31, 33, 34, and 39-49	is/are rejected.
7) Claim(s)		is/are objected to.
8) Claims	· · · · · · · · · · · · · · · · · · ·	are subject to restriction and/or election requirement.
Application Papers		
9) \square The specification is objected	to by the Examiner.	
10)☐ The drawing(s) filed on	is/are a) 🗌 ad	ccepted or b) \square objected to by the Examiner.
Applicant may not request the	at any objection to the drawing(s)) be held in abeyance. See 37 CFR 1.85(a).
11) The proposed drawing correct	ction filed on	is: a) \square approved b) \square disapproved by the Examine
If approved, corrected drawin	gs are required in reply to this Of	ffice action.
12) The oath or declaration is ob	jected to by the Examiner.	•
Priority under 35 U.S.C. §§ 119 and	120	
13) Acknowledgement is made of	of a claim for foreign priority un	nder 35 U.S.C. § 119(a)-(d) or (f).
a) □ All b) □ Some* c) □ l	None of:	
1. Certified copies of the p	priority documents have been re	eceived.
2. Certified copies of the	priority documents have been re	eceived in Application No
application from	the International Bureau (PCT)	
*See the attached detailed Office		•
	of a claim for domestic priority (·
	gn language provisional applicat	
	ग a claim for domestic priority ।	under 35 U.S.C. §§ 120 and/or 121.
Attachment(s) 1) Notice of References Cited (PTO-892)	41. □ 1.	regions Common (PTO 412) Power Note)
Notice of Preferences Cited (P10-092) Notice of Draftsperson's Patent Drawing Review	_	rview Summary (PTO-413) Paper No(s) ice of Informal Patent Application (PTO-152)
3) Information Disclosure Statement(s) (PTO-144		
-		

5

10

15

20

25

The CPA request received 5/20/02 has been entered and claims 1-9, 12-19, 23-26, 28-31, 33, 34, 39-49 are currently pending in this application.

A priority date of 5/6/99 is granted. Applicant is again requested to inform the examiner how this present CIP application differs from the parent application which is not currently available to the examiner. A copy of the claims of 09/306,143 and how the two specifications differ is requested.

In response to the requirement for Election of Species of 7/13/00, Applicant has elected:

A method of preventing or treating cutaneous inflammation by inhibiting KIT protein.

A reading of the specification as originally filed reveals inhibiting the KIT protein may have been performed by administering ACK2 monoclonal antibodies. No other method to do so is seen and there may be a question of enablement as the elected invention is directed to preventing or treating.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

5

10

15

20

25

Claims 1-9, 12-19, 23-26, 28-31, 33, 34, 39-49 are rejected under 35 U.S.C. 103(a) as being unpatentable over the combination of Columbo in view of Mohammadi.

What has been searched and considered here is:

A method of preventing or treating cutaneous inflammation by inhibiting a KIT protein.

Columbo (J of Immunology) entitled The Human Recombinant c-kit Receptor Ligand, rhSCF, Induces Mediator Release From Human Cutaneous Mast Cells and Enhances IgE Dependent Medicator Release From Both Skin Mast Cells and Peripheral Blood Basophils teaches in the abstract, a ligand for the c-kit proto oncogene receptor, a member of the tyrosine kinase receptor class, and the effects of c-kit receptor ligand stem cell factor on the release of inflammatory mediators from human skin mast cells. There were effects on mast cells related to human allergic reactions and SCF may modulate mast cells function under physiologic conditions. On page 604 column 1, antibodies which recognize human c-kit receptor is shown. On page 606 column 2 last paragraph bridging to 607, the antibodies against c-kit receptor and their effects were discussed.

The claims differ from Columbo in that they are directed to preventing or treating specifically where Columbo is measuring effects.

5

10

15

20

25

Mohammadi (Science) entitled Structures of the Tyrosine Kinase Domain of Fibroblast Growth Factor Receptor in Complex with Inhibitors teaches on page 955, protein tyrosine kinases are critical components of signaling pathways and selecting inhibitors have considerable therapeutic value.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to specifically treat with inhibitors as taught by Mohammadi in the method of Columbo because the inflammatory effects related to c-kit and that such effects are modifiable are taught by Columbo. Mohammadi is directed to inhibiting the same pathways as Columbo for therapeutic reasons. The connection between c-kit and cutaneous inflammation is clearly shown by Columbo. To select a known antibody such as ACK2 in view of Columbo who selects other antibodies would have been obvious because it would have the expected result.

Applicant's arguments filed 3/28/02 have been fully considered but they are not persuasive.

Applicant argues that Columbo describes in vitro experiments in contrast to the claimed method which is directed to in vivo methods. One cannot base in vivo methods on in vitro experiments because they are not completely predictable. Mohammadi does not teach a mast cell system.

1627

It is the examiner's position that the in vitro experiments of Columbo are highly suggestive of inhibiting the stem cell factor signaling pathway to treat cutaneous inflammation which is why the study was performed. One routinely bases in vivo methods upon in vitro experiments which is why in vitro experiments are performed and one would have a high expectation of success in doing so. Mohammadi was cited to teach the therapeutic value of inhibiting the tyrosine kinases.

10

5

Claims 1-9, 12-19, 23-26, 28-31, 33, 34, 39-49 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

15

The elected invention is directed to preventing or treating cutaneous inflammation. Applicant is invited to specifically point out where in the specification a method of preventing or treating cutaneous inflammation is found.

20

Since an election of species was made, no other issues under 35 USC 112 will be considered here regarding the presently pending claims.

5

10

15

20

25

Applicant's arguments filed 3/28/02 have been fully considered but they are not persuasive.

Applicant argues that the specification teaches administering compounds to prevent or treat cutaneous inflammation.

It is the examiner's position that the specification does not enable one of skill in this art to make and use the invention as elected. For example, no specific compounds are shown to be administered to any person for a specific function and the results of the administration determined. The present specification on page 9 directed to Fig. 8 does not appear to be directed to cutaneous inflammation and does not enable treating humans.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the

-7-

statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ralph Gitomer whose telephone number is (703) 308-0732. The examiner can normally be reached on Tuesday-Friday from 8:00 am - 5:00 pm. The examiner can also be reached on alternate Mondays. attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph McKane can be reached on (703) 308-The fax phone number for this Art Unit is (703) 308-4556. Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 308-1234. For 24 hour access to patent application information 7 days per week, or for filing applications electronically, please visit our website at www.uspto.gov and click on the button &Patent Electronic Business Center for more information.

20

5

10

15

Ralph Gitomer Primary Examiner Group 1627

Meetomes